

The following Listing of Claims replaces all prior listings, and versions, of claims in the subject patent application.

Listing of Claims:

25. (Currently amended) A method of printing a representation on a print medium of an array of contiguous print data pixels comprising a plurality of parallel rows of contiguous print data pixels, the method comprising the steps of:

processing print data from said array of contiguous print data pixels such that it is distributed over an array of super pixels, each super pixel having a print level, according to a distribution function such that the print level of each super pixel is calculated based on a print data contribution from at least two print data pixels and each print data pixel contributes print data to the calculation of print levels for at least two super pixels;

and forming print pixels on the medium such that each print pixel receives a print contribution from N (where N is an integer greater than 1) at least two super pixels[[; wherein each print pixel corresponds to the area of overlap of said at least two super pixels]].

26. (Original) A method according to Claim 25, wherein each super pixel receives a print data contribution from at least three print data pixels.

27. (Original) A method according to Claim 26, wherein the print data contribution varies in sign between said print data pixels.

28. (Previously presented) A method according to Claim 25, wherein the at least two super pixels from which a print pixel receives print contribution, receive print data contributions from different combinations of print data pixels.

29. (Previously presented) A method according to Claim 25, further comprising the step of measuring the print efficiency of each super pixel.

30. (Previously presented) A method according to Claim 29, further comprising distributing the measured print efficiency as print data.

31. (Previously presented) A method of printing a representation on a print medium of an array of print data pixels comprising the steps of distributing print data from said array of print data pixels over an array of super pixels in a distribution function such that each super pixel receives a print data contribution from at least two print data pixels and each print data pixel contributes print data to at least two super pixels; and forming print pixels on the medium such that each print pixel receives print contribution from at least two super pixels, wherein the step of forming print pixels on the medium such that each print pixel receives print contribution from at least two super pixels comprises the steps at each print pixel of depositing ink in an amount determined by one of the super pixels from which that print pixel receives print contribution and, while that deposited ink remains fluid, depositing ink in an amount determined by another of the super pixels from which that print pixel receives print contribution.

32. (Previously presented) A method according to Claim 31, comprising depositing the ink by ink jet printing.

33. (Currently amended) A printer comprising an input port adapted to receive an array of print data pixels, said array comprising a plurality of parallel rows of contiguous print data pixels; a print arrangement for forming overlapping super pixels on a print medium and a print processor adapted to process print data from said array of print data pixels such that it is distributed over the super pixels according to a distribution function such that the print level of each super pixel is calculated based on a print data contribution from at least two print data pixels and each print data pixel contributes print data to the calculation of print levels for at least two super pixels;

wherein each print pixel receives a print contribution from N (where N is an integer greater than 1) super pixels.

34-37 (Canceled).

38. (New) A method according to Claim 25, wherein the total number of super pixels is N times the number of print pixels.

39. (New) A method according to Claim 25, wherein said processing step comprises distributing the print data for each of said rows of print data pixels over a respective group of N superimposed rows of contiguous super pixels.

40. (New) A method according to Claim 39, wherein each of said superimposed rows of super pixels extends in a row direction and each row within a group of N rows of super pixels is offset in said row direction with respect to each of the other superimposed rows in that group.

41. (New) A method according to Claim 40, wherein the distance of said offset is 1/N of the length of each super pixel in the row direction.

42. (New) A printer according to Claim 33, adapted to form N super pixels for each print pixel.

43. (New) A printer according to Claim 33, wherein said print processor is further adapted to distribute the print data for each of said rows of print data pixels over a respective group of N superimposed rows of contiguous super pixels, said print arrangement being adapted to form said groups of N superimposed rows of contiguous super pixels.

44. (New) A printer according to Claim 43, wherein each of said superimposed rows of super pixels extends in a row direction and each row within a group of N rows of super pixels is offset in said row direction with respect to each of the other superimposed rows in that group.

45. (New) A method according to Claim 40, wherein the distance of said offset is 1/N of the length of each super pixel in the row direction.